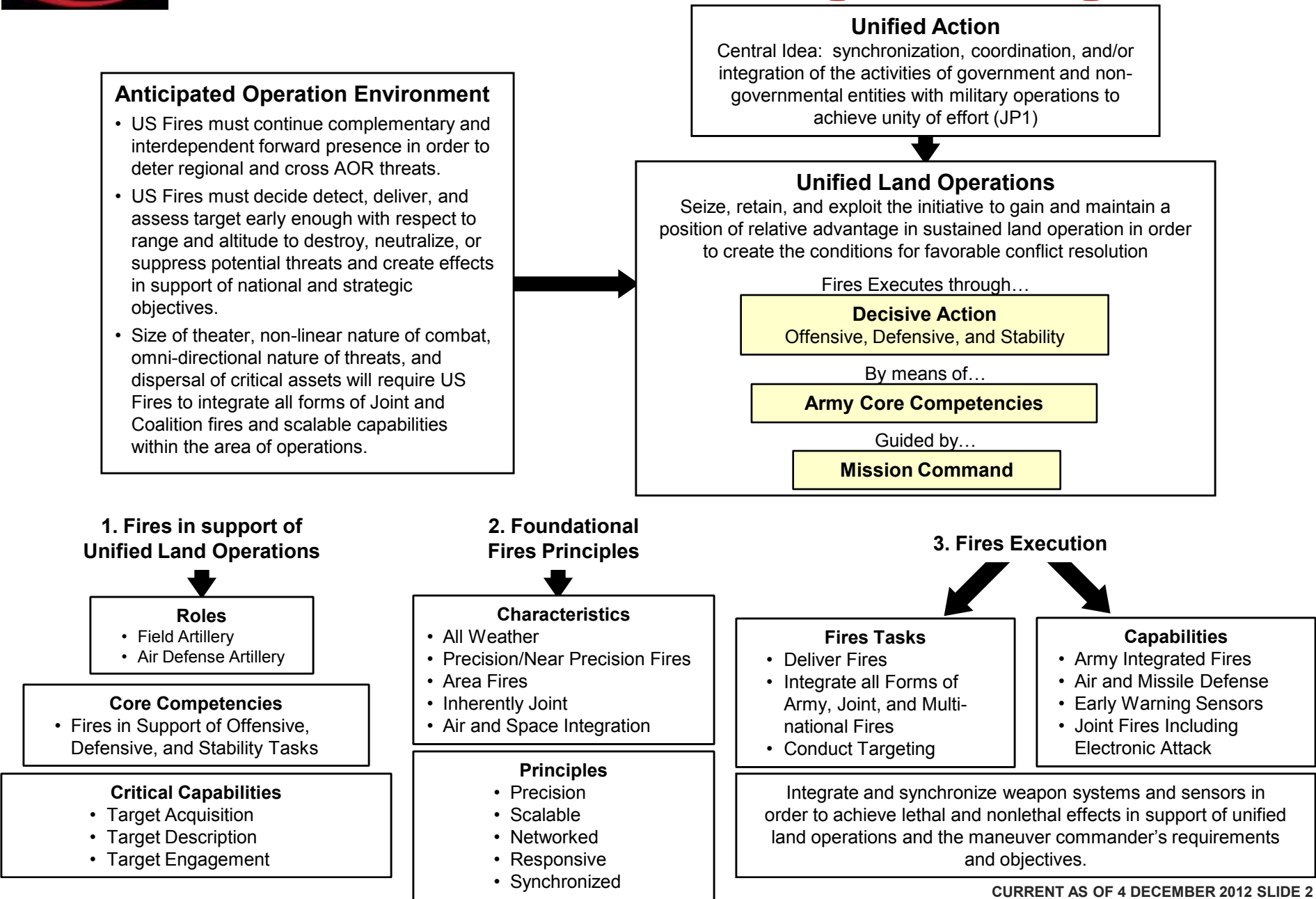




U.S. Army Fires 2020



ADP 3.09 Fires Logic Diagram





Fires Focus

Fires Center

- Make it more effective (JFU), 3 BDE, 4 Schools
- ALM (Army Learning Model)
- Leader Development
- Training
- Non-lethal Fires
- Electric Fires

Portfolio (STRATCOM)

- Comprehensive
- Prevent, Shape, Win
- Gaps and strategy to close
- Reduce redundancy

Fort Sill

- Physical Fitness
- Information Distribution
- Customer Service

Air and Missile Defense Gaps

- Common Networked Mission Command
- Counter-UAS
- Cruise Missile Defense
- Counter-RAM
- Early Release Sub-Munitions
- Persistent, Elevated Sensors
- NTC / Avenger / National Guard
- Air Sea Battle / GAMOA*

Field Artillery Gaps

- Common Networked Mission Command
- Target Location Error
- 360 Degree Radar Coverage and Range
- Precision and Area Fires
- Force Protection/Survivability
- Long Range Fires
- Modernize Gunnery
- Fires Headquarters - EAB
- Reinforcing Cannons

“Fires: 8% of the Force - Best Bang for the Buck”



Munitions Use - OIF/OEF

ATACMS/GMLRS

ATACMS - Army Tactical Missile System

- Internal Navigation/GPS Guidance with a 160km Range
- **525 Missions Fired**
- 63% in support of pre-planned targets

GMLRS - Guided Multiple Launch Rocket System

- GPS Guidance with a 15-70 km Range
- **2,330 Rounds Fired**
- 76% in support of pre-planned targets
- 97% of missions fired into urban terrain

Howitzer Systems

155mm - Paladin & M777

- **322,019 Rounds Fired**
- 72% High Explosive Missions
- 8% Smoke Missions
- 20% Illumination Missions
- **236 Excalibur Rounds Fired – Precision Guided**

105mm - M119

- **208,970 Rounds Fired**
- 71% High Explosive Missions
- 9% Smoke Missions
- 20% Illumination Missions

Patriot

PATRIOT - 9 Engagements with 25 Missiles Fired

- **8 of 9 Engagements** achieving Warhead Kill
- Successfully detected, traced, engaged and intercepted missiles threatening defended areas

Combat Vignettes

- Successful intercept of enemy missiles targeting Camp DOHA (CFLCC Headquarters) in March 2003
- Successful Intercept of enemy missiles targeting TAA Thunder (101st Airborne Assembly Area) in March 2003

C-RAM/IFPC*

C-RAM - 20mm

- **175+ Intercepts** in support of OIF/OND
- **2,500+ Attack Sense & Warn**

Combat Vignettes

- Successful rocket detection and destruction at Victory Base protecting more than 3,000 Service Members and Civilians at Toby Keith MWR Concert in May 2007
- Successful rocket detection and destruction at Dodge City South LSA protecting more than 300 Service Members and Civilians in October 2010

*C-RAM (Counter Rocket Artillery Mortar/IFPC (Indirect Fire Protection Capability)



Air and Missile Defense Modernization Strategy

GAP NOT ADDRESSED:
AAMDC per COCOM

Pres Bud (FY12)

POM Years (FY13-17)

Extended Planning Period (FY18-25)

+++
COCOM
5/0/5

++
AAMDC
3/1/4

X
ADA
5/2/7

II
ADA
17/7/24

AC/ARNG/TOTAL

Shooters



PAC-3 Missile



Terminal High Altitude Area Defense



CRAM



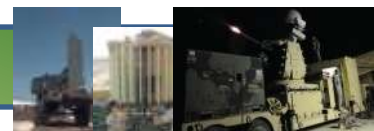
Stinger

GAP ADDRESSED:
Stinger SLEP: C-UAS



MSE Missile

GAP ADDRESSED:
MSE: Increased SRBM Intercept Capability



Indirect Fire Protection Capability (IFPC) Increment 2

GAP ADDRESSED:
IFPC Inc 2: C-RAM

Field capability – Medium Range Ballistic Missile (MRBM) intercept capability (exo-atmospheric)

- Incremental Post Deployment Build
- Software Upgrades increase performance against emerging threats
- Extends Service Life

Sensors



Patriot Config-3



AN/TPY 2



Improved Sentinel

GAP ADDRESSED:
Improved Sentinel: Greater C-UAS Detection Capability



Demo Only

Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS)

Procure new capability – persistent, elevated & netted sensor

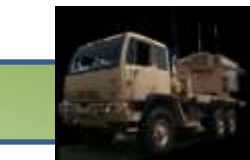
GAP ADDRESSED:
JLENS: Persistent Elevated Cruise Missile /UAS Detection

Mission Command



IBCS gradually replaces AMDPCS / FAADC2

GAP ADDRESSED:
IBCS: Common ADA Mission Command Node



Integrated AMD Battle Command System (IBCS)



IBCS Plug-and-Fight Kits placed on AMD Sensors & Shooters

GAP ADDRESSED:
Plug and Fight: Networked Enabled Systems

AMD Sensors, Shooters, and Mission Command Nodes must be Integrated and Networked



Field Artillery Modernization Strategy

+++
COCOM

5/0/5 ASCC 5/0/5
FSE 5/0/5
BCD 5/0/5
GLD 39/0/39
RLD 4/0/4

XXX
3/0/3 FSE 3/0/3

XX
10/8/18 FSE 10/8/18

**GAP NOT
ADDRESSED:**
No EAD Fires HQ

X
10/8/18

6/2/8
(M270A1)

5/12/17
(M142)

2/8/10
(155 SP)

3/7/10
(155 T)

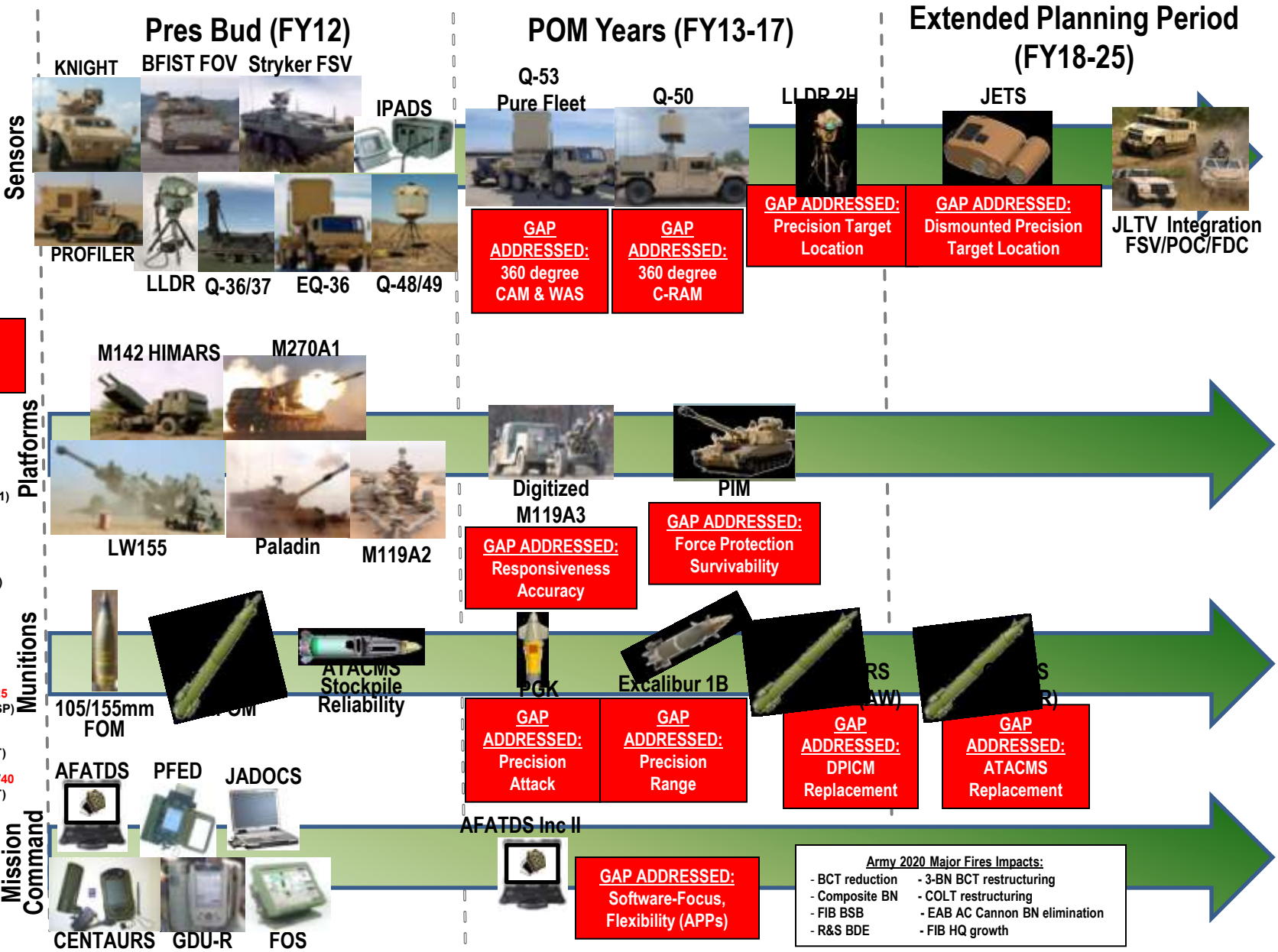
Y

18/7/25
(155 SP)

7/1/8
(155 T)

20/20/40
(105 T)

AC/ARNG/TOTAL



- Army 2020 Major Fires Impacts:
- BCT reduction
 - Composite BN
 - FIB BSB
 - R&S BDE
 - 3-BN BCT restructuring
 - COLT restructuring
 - EAB AC Cannon BN elimination
 - FIB HQ growth



Discussion

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